

C.I.P.S.

TECHNICAL REPORT

MODELE MATHEMATIQUE DE LA  
POLLUTION EN MER DU NORD.

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SORPTIE-EIGENSCHAPPEN VAN SEDIMENTEN  
VAN DE NOORDZEE

door

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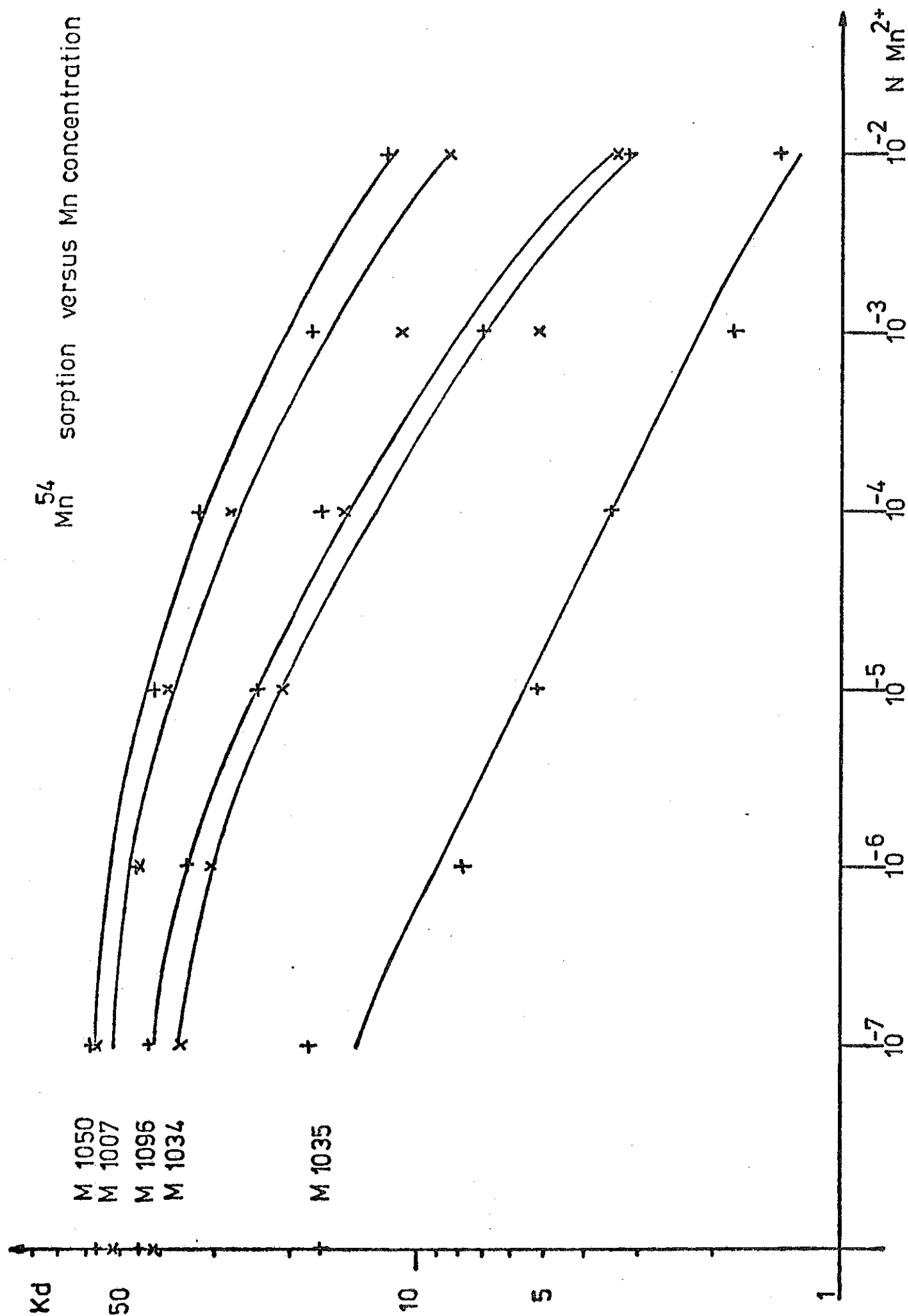
# Bepaling van de $K_d$ in Zeewater

$Mn^{54}$  - tracer

| Bodemmonster   | Kd   | Bodemmonster   | Kd   |
|----------------|------|----------------|------|
| $\leq 150 \mu$ | ml/g | $\leq 300 \mu$ | ml/g |
| 5              | 47   | 1014           | 26   |
| 54             | 23   | 1181           | 16   |
| 1007           | 52   |                |      |
| 1021           | 13   |                |      |
| 1026           | 46   |                |      |
| 1034           | 42   |                |      |
| 1035           | 17   |                |      |
| 1050           | 57   |                |      |
| 1065           | 67   |                |      |
| 1096           | 45   |                |      |
| 1097           | 55   |                |      |
| 1098           | 72   |                |      |
| 1100           | 31   |                |      |
| 1113           | 62   |                |      |
| 1114           | 66   |                |      |
| 1131           | 78   |                |      |
| 1133           | 65   |                |      |
| 1149           | 93   |                |      |
| 1151           | 88   |                |      |
| 1153           | 73   |                |      |
| 1167           | 93   |                |      |
| 1168           | 65   |                |      |
| 1170           | 19   |                |      |
| 1172           | 26   |                |      |
| 1173           | 73   |                |      |

Invloeden van de concentratie aan Mn  
op de Kd bepaald met  $Mn^{54}$  - tracer.

| Concentratie aan<br>$Mn^{2+}$<br>N | Monster    | < 150 $\mu$ |      |      |      |
|------------------------------------|------------|-------------|------|------|------|
|                                    | 1007<br>Kd | 1034        | 1035 | 1050 | 1096 |
| tracer                             | 52         | 42          | 17   | 57   | 45   |
| $10^{-7}$                          | 57         | 36          | 18   | 59   | 43   |
| $10^{-6}$                          | 45         | 31          | 7,7  | 46   | 35   |
| $10^{-5}$                          | 39         | 22          | 5,2  | 42   | 24   |
| $10^{-4}$                          | 28         | 16          | 3,5  | 33   | 17   |
| $10^{-3}$                          | 11         | 5,2         | 1,8  | 13   | 7,1  |
| $10^{-2}$                          | 7,6        | 3,4         | 1,4  | 12   | 3,2  |



Bepaling van de capaciteit der zeebodemmonsters  
t.o.v.  $\text{K}^+$   $1\text{N}$  +  $\text{Mn}^{54}$  - tracer

| Monster<br>≤ 150 $\mu$ | Q<br>meq/g |
|------------------------|------------|
| 1284                   | 0,93       |
| 1303                   | 1,12       |
| 1326                   | 2,22       |
| 1342                   | 1,08       |
| 1344                   | 1,34       |
| 1380                   | 2,02       |
| 1415                   | 2,02       |
| 1416                   | 2,30       |
| 1420                   | 2,56       |
| 1421                   | 1,87       |
| 1428                   | 1,40       |
| 1434                   | 1,49       |
| 1437                   | 1,09       |
| 1519                   | 1,98       |
| 1563                   | 1,00       |
| 1582                   | 1,24       |
| 1598                   | 1,07       |
| 1616                   | 1,90       |
| 1635                   | 2,35       |

| Monster<br>≤ 300 $\mu$ | Q<br>meq/g |
|------------------------|------------|
| 1014                   | 1,00       |
| 1181                   | 0,99       |
| 1216                   | 1,00       |
| 1253                   | 1,08       |
| 1273                   | 1,29       |

Bepaling van de Capaciteit der zeebodemmonsters

t.o.v.  $Mn^{2+}$   $1N + Mn^{54}$  - tracer.

| Monster<br>< 150 $\mu$ | Q<br>meq/g | Monster<br>< 150 $\mu$ | Q<br>meq/g |
|------------------------|------------|------------------------|------------|
| 1173                   | 1,49       | 1287                   | 0,93       |
| 1167                   | 1,89       | 1290                   | 0,78       |
| 1188                   | 2,28       | 1304                   | 0,88       |
| 1190                   | 1,16       | 1333                   | 0,81       |
| 1194                   | 1,78       | 1361                   | 1,60       |
| 1196                   | 2,45       | 1379                   | 0,79       |
| 1211                   | 1,56       | 1398                   | 1,06       |
| 1215                   | 2,54       | 1414                   | 1,67       |
| 1241                   | 1,77       | 1479                   | 1,47       |
| 1251                   | 1,86       | 1521                   | 1,37       |
| 1252                   | 2,23       |                        |            |
| 1283                   | 1,79       |                        |            |